

HAKAN OKAY

SOFTWARE DEVELOPER

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EXPERIENCE

Freelance Software Developer @ hakanokay.dev ~ Ottawa, ON

June 2022 - Present

- Redesigned and redeveloped Musme Library, an online music library for content creators using modern web technologies, reducing page load times by 50%. Mentored the other four contributors and did code reviews.
- Developed a web application using Next.js, FastAPI, MySQL and Docker to manage the sale records of a local store, saving time spent on manual data entry and data management for a team of 8 people.
- Trained a machine learning model for an e-commerce business serving ~4700 users monthly. The model predicts the likelihood of conversion based on user actions, resulting in 15% revenue growth through personalized marketing.
- Migrated a PHP web service processing external CRM data to Python. Updated the data extraction and transformation scripts, increasing efficiency by 25%. Implemented additional data validation steps using Pydantic.

Backend Engineer @ datablast.io ~ Ottawa, ON

September 2022 - February 2023

- Built an SQL generation engine using Jinja, Python and SQL to automate the data modelling and warehousing process for products with similar data characteristics, resulting in a 20% faster onboarding process.
- Debugged issues within the parser of a specialized SQL-like querying language designed for simpler and more efficient cloud querying. Added unit tests for bug-causing edge cases, mitigating the risk of future errors.
- Implemented new features to blast, a CLI tool enabling cross-functional teams to validate and run data transformations using SQL and Python on the same pipeline, leading to a 30% increase in development efficiency.
- Created and optimized RESTful API endpoints querying BigQuery warehouses to generate static analytics reports, improving response times by 15%, adding support for customizations, and integrating more KPIs (CPM, ARPDAU).

Data Engineer @ datablast.io ~ Izmir, Turkey

March 2022 - September 2022

- Built and managed ETL pipelines to process ~1 billion rows of user-generated data daily, originating from 10 clients across 35 mobile applications and various backends. Used Snowflake, BigQuery and Redshift for warehousing.
- Implemented custom Airflow operators for data validations. Used the operators on 18 different ETL pipelines, reducing data inconsistencies, and resulting in more reliable dashboards built by the data teams.
- Implemented Airflow operators to notify stakeholders about recurring warehousing and querying costs, sending warnings about high-cost actions performed, preventing excessive or unexpected costs.
- Created the technical documentation of Blast Data Platform, allowing data teams to navigate the implementation process easily, resulting in shorter onboarding times and 20% less support tickets.

SKILLS

Languages & Technologies: Python, SQL, TypeScript, JavaScript, HTML/CSS, Go, Java

Libraries & Frameworks: React, Next.js, Tailwind, Prisma, FastAPI

Tools & Platforms: Linux, Git, Docker, Airflow, Google Cloud, AWS

Databases & Warehouses: MySQL, Postgres, Oracle, MongoDB, BigQuery, Snowflake, Redshift

EDUCATION

Algonquin College

Ottawa, ON

Diploma in Computer Programming

September 2022 - December 2023

Miuul & Data Science Academy

Izmir, Turkey (Remote)

Data Science and Machine Learning Bootcamp

December 2021 - March 2022

Akdeniz University

Antalya, Turkey

Bachelor's Degree in Engineering

September 2014 - September 2019